Efficient, high-performing Carrier HVAC solutions

DESIGNED FOR THE DATA CENTRE

Lifecycle solutions for complete data centre optimization

Data centres have never been more strategic or critical than they are today. They have also never faced greater scrutiny regarding efficiency, availability and flexibility. As your data centre evolves, you need cooling system solutions — **and a trusted partner** — that can evolve with it. At Carrier, we're always here with purpose-built solutions and expertise to help you face all your data centre challenges with confidence.

Our HVAC equipment delivers essential cooling while reducing both your energy consumption and carbon footprint. Our management systems integrate building and IT infrastructure to provide greater visibility and optimization. Our service and support ensure peace of mind and help enable continuous operations. **And as a truly global partner, we're there wherever and whenever you need us.** It all adds up to the confidence you need to operate with optimized performance at every stage of the data centre lifecycle — and at Carrier, it's delivered by design.

Next-level, integrated management solutions.
Designed for the data centre.

Nlyte Software

Integrated Data Centre Management (IDCM)

Integrated Data Centre Management offers the next level of insight and control for today's increasingly complex computing and supporting infrastructure. IDCM tightly integrates the various systems within a data centre in new and unique ways for energy savings, reduced costs and improved resiliency. IDCM is built with best-in-class technology from Automated Logic and Nlyte, unifying the worlds of Building Management Systems and Data Centre Management.
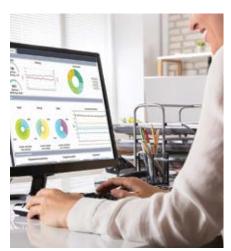
Nlyte Asset Optimizer

Bring automation and efficiency to asset lifecycle management, capacity planning, workflow integration and audit & compliance tracking with an open and scalable software solution designed for the data centre. Nlyte Asset Optimizer simplifies space and energy planning and connects seamlessly with IT Service Management (ITSM) and business intelligence applications, making it easy for you to manage any asset, from receiving dock to decommissioning, in any enterprise, colocation or edge facility globally.

Nlyte Energy Optimizer

Monitor power and cooling. Deliver threshold alarming. View real-time and historical analytics. It's all possible with Nlyte Energy Optimizer, a highly scalable, hardware-agnostic solution that manages and tracks the data centre power chain. Take advantage of its powerful capabilities designed to help improve energy consumption, reduce disruption and track performance across all your locations.

AutomatedLogic

WebCTRL® Building Automation System

The WebCTRL® Building Automation System from Automated Logic brings all your building's subsystems together with one web-based platform that makes it easy for you to understand, control and analyze data centre operations. Take advantage of powerful visualization tools, robust procedural tracking and secure user verification options to implement intelligent strategies for balancing power usage effectiveness with the conditions needed to maximize uptime and adhere to service-level agreements.

Efficient, high-performing HVAC solutions. Designed for the data centre.

AquaForce® 30XF Variable
Speed Air-Cooled Screw Chiller

19DV AquaEdge® Greenspeed®
Water-Cooled
Centrifugal Chiller

19XR AquaEdge®
Water-Cooled Centrifugal Chiller

19MV AquaEdge® Water-Cooled
Centrifugal Chiller

Air Handling and Fan-Wall Units

Carrier and Toshiba VRFs

AquaForce® 30XF Variable Speed Air-Cooled Screw Chiller

Experience unmatched reliability with the versatile, easy-to-install Carrier AquaForce® 30XF Screw Chiller. Enjoy exceptional uptime and dependability with industry-leading COP of up to 3.9*, ultra-fast cooling capacity recovery within 120 seconds, inbuilt hydronic pumps, Automatic Transfer Switch and Active Harmonic Filter. The 30XF Chiller is also available with low-GWP R1234ze, R515B, R513A and R134a refrigerants and a Free Cooling Option for maximized performance, savings and environmental benefits.

*Data centre conditions: 20°C LWT / 30°C EWT, 35°C ambient temperature

AquaEdge® Water-Cooled Chillers

Carrier's Water-Cooled Chillers offer innovative features and a versatile, full-system approach for efficient data centre cooling. The 19DV and 19MV Chillers, equipped with the unique EquiDrive™ two-stage back-to-back economized compressor, excel under high loads to meet data centre requirements with superior performance. Following sustainability protocols with ultra-low-GWP R1233zd(E) and R1234ze refrigerants, they also swiftly restart in just 150 seconds following a power loss and reach 80% design capacity.

Air Handling and Fan-Wall Units

Carrier offers custom Air Handling and Fan-Wall Units to meet precise requirements. A reliable double-wall construction and thermal bridge deliver structural integrity and unmatched performance in an easy-to-install package. Further optimize your system with high-grade HEPA filters, EC Fan with low THDI and factory-installed controls for efficient airflow and ventilation. The Air Handling Units are also available in single-flow and aligned or adjacent dual-flow configurations to suit diverse data centre needs.

VRF Systems

Carrier and Toshiba VRF systems come with a wide variety of indoor units designed for plug-and-play operation, making them suitable for server rooms, UPS rooms and providing comfort cooling in office areas. With a wide ambient temperature range from -5°C to 55°C in cooling mode, these units also ensure reliable operations in extreme conditions.

Complete lifecycle service and support. Designed for the data centre.

BluEdge Service Platform

Enjoy peace of mind by entrusting the lifecycle care of your HVAC assets to Carrier.

- 24/7 Emergency Support & Prioritization
- Tailored Service Plans from Basic to Comprehensive
- Preventive Maintenance for Greater Asset Longevity and Reliability
- Predictive Maintenance to Troubleshoot Issues Before They Arise

Proactive and Predictive Maintenance

Abound™ Predictive Insights leverages the power of data to enable predictive maintenance for your chiller plant and control room.

- Data-based Insights on Asset Performance
- Expert Consultation for Proactive Asset Management
- Optimized Efficiency and Performance
- Reduced Unplanned Scenarios and Costs

Modernization and Upgrades

Maximize HVAC equipment investments through retrofitting or modernizing.

- HVAC Assets' Lifecycle Partner
- Reduced Total Ownership Costs
- Energy Efficiency Monitoring

Carrier Rental Systems

Providing the assurance you need for continued business operations.

- Emergency Response Planning & Implementation
- Seamless Business Operations
- Customized Equipment Load Testing Plans

Carrier HVAC Solutions

DATA CENTRE BENEFITS
AT A GLANCE

IDCM Benefits

• Increased efficiency of power, cooling and space by matching capacity with actual and forecasted demand

• Minimized disruption from planned maintenance or unforeseen failures of power, thermal or building systems

• Improved reliability through end-to-end, unified visibility of all critical systems

Equipment Benefits

• Meets strict environmental requirements necessary to ensure uptime and keep your servers running cool around the clock

• Supports reaching your budget and sustainability goals by reducing energy consumption and carbon footprint

• Equipment, components and features designed for service efficiencies

Service Benefits

• Reliable 24/7, 365 service and support for HVAC systems

• Readily available rental equipment minimizes disruptions during upgrades or replacements

• Intelligent digital solutions enable advance notifications, remote diagnostics, decision analytics and enhanced field service support to maximize operations

• Expert guidance, from system design to ongoing maintenance

At Carrier, *our solutions are designed for the data centre* — and we're always here to provide the confidence you need to operate with optimized performance no matter how your demands evolve.

Discover
more here!